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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/852,220	05/09/2001	Shunpei Yamazaki	SEL 259	4950
7590 06/06/2008 COOK, ALEX, MCFARRON, MANZO, CUMMINGS & MEHLER, LTD. Suite 2850 200 West Adams St. Chicago, IL 60606			EXAMINER ABDULSELAM, ABBAS I	
			ART UNIT 2629	PAPER NUMBER
			MAIL DATE 06/06/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/852,220

Applicant(s)

YAMAZAKI ET AL.

Examiner

ABBAS I. ABDULSELAM

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 March 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) See Continuation Sheet is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 28, 29, 31-33, 35-37, 40, 41, 43, 45-51, 57-60, 66-69 and 74-77 is/are allowed.
- 6) ☒ Claim(s) 7-10, 12, 53, 62 and 70 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 03/20/08.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

Continuation of Disposition of Claims: Claims pending in the application are 7-10,12,28,29,31-33,35-37,40,41,43,45-51,53,57-60,62,66-70 and 74-77.

DETAILED ACTION

Response to Arguments

1. This office action is in response to a communication filed on 03/20/08. Claims 7-10, 12, 28-29, 31-33, 35-37, 40-41, 43, 45-51, 53, 57-60, 62, 66-70 and 74-77 are pending. Claims 1-6, 11, 13-27, 30, 34, 38-39, 42, 44, 52, 54-56, 61, 63-65 and 71-73 are canceled.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 03/20/2008 has been entered.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 05/23/08 was filed. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

As per request from the applicants on response dated 03/20/08, a reference Koyoma (US 2001/0017372) was reconsidered again.

Priority

4. Should applicant desire to obtain the benefit of foreign priority under 35 U.S.C. 119(a)-(d) prior to declaration of interference, a certified English translation of the foreign application must be submitted in reply to this action. 37 CFR 41.154(b) and 41.202(e).

Failure to provide a certified translation may result in no benefit being accorded for the non-English application.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 7, 9, 12, 53 and 62 are rejected under 35 U.S.C. 102(e) as being anticipated by Inoue (USPN 6469455).

Regarding claims 7, 9, 53 and 62, Inoue (USPN 6469455) teaches a light emitting element driving circuit for optical communications such as a camera, and illustrates as shown in FIG. 1 a light emitting element driving circuit including an electric current source 1, a light emitting element 2, a capacitor 4, and a current switch 3 as a first switching part. Inoue teaches the light emitting element driving circuit shown in FIG. 4 is provided based on the basic constitution shown in FIG. 1, such that the current switch 3 is constituted of two n-channel

MOSFET's 31, 32, and illustrates as shown in Fig. 6 that the n-channel MOSFET 33 has a gate terminal input with the output signal from the inverter 61 (col. 1, lines 53-54, col. 2, lines 21-27, col. 6, lines 17-37, and col. 10, lines 62-66).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 8, 10 and 70 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue (USPN 6469455) in view of Wagner et al. (USPN 6670599).

Regarding claims 8, 10 and 70, Inoue does not teach the use of a plastic substrate, and semiconductor element being a thin film transistor including a microcrystalline semiconductor film.

Wagner et al. (USPN 6670599) on the other teaches the use of microcrystalline silicon-germanium alloys with respect to photodiodes as shown in Fig. 3, and discloses that semitransparent PIN photodiodes are fabricated on a flexible plastic substrate (col. 21, lines 51-59).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Inoue's light emitting element (which can be light emitting diode) with Wagner's use of microcrystalline alloy along with a plastic substrate, because the use of

microcrystalline alloy along with a plastic substrate helps achieve enhanced conductivity flexibility and transparency as taught by Wagner.

Allowable Subject Matter

9. Claim 28-29, 31-33, 35-37, 40-41, 43, 45-51, 57-60, 66-69 and 74-77 are allowed.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABBAS I. ABDULSELAM whose telephone number is (571)272-7685. The examiner can normally be reached on Monday through Friday from 9:00A.M to 5:30 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Abbas I Abdulsalam/

Primary Examiner, Art Unit 2629

May 30, 2008